Option 3, MACT Floor Levels for Existing Sources

Pollutant	Incinerators	Cement Kilns	Lightweight Aggregate Kilns	Solid Fuel Boilers	Liquid Fuel Boilers	HCI Production Furnaces
Dioxin/Furans (ng TEQ/dscm)	+ 400°F at inlet for	0.20 (0.08) or 0.40 + 400°F (0.16 + 375°F) at inlet to PM control device	0.20 (0.11) ng TEQ/dscm or rapid quench of flue gas at exit of kiln to less than 400°F (375°F)	CO or HC, and DRE as surrogate	ICO OT HC and DRE	CO or HC, and DRE as surrogate
Mercury	130 (78) ug/dscm	31 (10.6) ug/dscm *	18.7 (7.4) ug/dscm *	10 (7.0) ug/dscm	0.47 (0.22) ug/dscm *	TCI as surrogate
Particulate Matter	10 004 (0 0017) 00/0801	0.0159 (0.0098) gr/dscf	0.025 (0.0105) gr/dscf	0.0648 (0.0273) gr/dscf	0.0025 (0.0015) gr/dscf	TCI as surrogate
Semivolatile Metals (Pb + Cd)	19 (7.7) ug/dscm	68 (46) ug/dscm	130 (44) ug/dscm	170 (140) ug/dscm	8.7 (4.5) ug/dscm *	TCI as surrogate
Low Volatile Metals (As + Be + Cr)	14 (7.4) ug/dscm	8.9 (6.2) ug/dscm	82 (33) ug/dscm	210 (140) ug/dscm	28 (14) ug/dscm (Cr only)	TCI as surrogate
Total Chlorine (TCI) (HCI + CI2)	0.93 (0.42) ppmv	41 (20) ppmv	600 (420) ppmv	440 (240) ppmv	2.4 (1.5) ppmv	2.0 (1.3) ppmv
Carbon Monoxide (CO) or Hydrocarbons (HC)	ppmv HC	100 ppmv CO or 20 ppmv HC fat main stack; or 10 ppmv at bypass	100 ppmv CO or 20 ppmv HC	100 ppmv CO or 10 ppmv HC		
Destruction and Removal Efficiency (DRE)	99.99% (or 99.9999%) for POHC					

Notes:

* Standard based on normal data; therefore, compliance will be based on an annual limit.

Option 1, MACT Floor Levels for New Sources

Pollutant	Incinerators	Cement Kilns	Lightweight Aggregate Kilns	Solid Fuel Boilers	Liquid Fuel Boilers	HCl Production Furnaces
Dioxin/Furans (ng TEQ/dscm)	0.11 for dry apcds and WHBs; 0.2 for others	0.20 or 0.40 + 400°F at inlet to PM control device	0.20 ng TEQ/dscm or rapid quench of flue gas at exit of kiln to less than 400°F	CO or HC, and DRE as surrogate	0.015 for dry apcd; CO or HC, and DRE as surrogate for others	CO or HC, and DRE as surrorgate for others
Mercury	8 ug/dscm	35 ug/dscm *	67 ug/dscm *	10 ug/dscm	3.8E-7 lbs Hg in HW per MMBtu in HW *	TCI as surrogate
Particulate Matter	0.00077 gr/dscf	0.0058 gr/dscf	0.0099 gr/dscf	0.0395 gr/dscf	0.0076 gr/dscf	TCI as surrogate
Semivolatile Metals (Pb + Cd)	6.5 ug/dscm	6.2E-5 lbs SVM in HW per MMBtu in HW	2.4E-5 lbs SVM in HW per MMBtu in HW	170 ug/dscm	4.3E-6 lbs SVM in HW per MMBtu in HW *	TCI as surrogate
Low Volatile Metals (As + Be + Cr)	8.9 ug/dscm	1.4E-5 lbs LVM in HW per MMBtu in HW	3.2E-5 lbs LVM in HW per MMBtu in HW	190 ug/dscm	3.6E-5 lbs Cr in HW per MMBtu in HW	TCI as surrogate
Total Chlorine (TCI) (HCI + CI2)	0.18 ppmv	78 ppmv	600 ppmv	73 ppmv	7.2E-4 lbs Cl in HW per MMBtu in HW	1.2 ppmv or 99.99937% SRE
Carbon Monoxide (CO) or Hydrocarbons (HC)	100 ppmv CO or 10 ppmv HC	100 ppmv CO or 20 ppmv HC fat main stack; or 10 ppmv at bypass	100 ppmv CO or 20 ppmv HC	100 ppmv CO or 10 ppmv HC		
Destruction and Removal Efficiency (DRE)	99.99% (or 99.9999%) for POHC					

Notes:

* Standard based on normal data; therefore, compliance will be based on an annual limit.

Option 2, MACT Floor Levels for New Sources

Pollutant	Incinerators	Cement Kilns	Lightweight Aggregate Kilns	Solid Fuel Boilers	Liquid Fuel Boilers	HCl Production Furnaces
Dioxin/Furans (ng TEQ/dscm)	0.11 for dry apcds and WHBs; 0.2 for others	0.20 or 0.40 + 400°F at inlet to PM control device	0.20 ng TEQ/dscm or rapid quench of flue gas at exit of kiln to less than 400°F	CO or HC, and DRE as surrogate	0.015 for dry apcd; CO or HC, and DRE as surrogate for others	CO or HC, and DRE as surrorgate for others
Mercury	8 ug/dscm	21 ug/dscm *	6.1 ug/dscm *	10 ug/dscm	3.8E-7 lbs Hg in HW per MMBtu in HW *	TCI as surrogate
Particulate Matter	0.00077 gr/dscf	0.0058 gr/dscf	0.0099 gr/dscf	0.0395 gr/dscf	0.0076 gr/dscf	TCI as surrogate
Semivolatile Metals (Pb + Cd)	5.3 ug/dscm	4.3E-5 lbs SVM in HW per MMBtu in HW	2.4E-5 lbs SVM in HW per MMBtu in HW	170 ug/dscm	4.3E-6 lbs SVM in HW per MMBtu in HW *	TCI as surrogate
Low Volatile Metals (As + Be + Cr)	2.5 ug/dscm	1.1E-5 lbs LVM in HW per MMBtu in HW	3.2E-5 lbs LVM in HW per MMBtu in HW	190 ug/dscm	2.7E-6 lbs Cr in HW per MMBtu in HW	TCI as surrogate
Total Chlorine (TCI) (HCI + CI2)	0.18 ppmv	21 ppmv	600 ppmv	73 ppmv	7.2E-4 lbs Cl in HW per MMBtu in HW	1.2 ppmv or 99.99937% SRE
Carbon Monoxide (CO) or Hydrocarbons (HC)	100 ppmv CO or 10 ppmv HC	100 ppmv CO or 20 ppmv HC fat main stack; or 10 ppmv at bypass	100 ppmv CO or 20 ppmv HC	100 ppmv CO or 10 ppmv HC		
Destruction and Removal Efficiency (DRE)	99.99% (or 99.9999%) for POHC					

Notes:

* Standard based on normal data; therefore, compliance will be based on an annual limit.

Option 3, MACT Floor Levels for New Sources

Pollutant	Incinerators	Cement Kilns	Lightweight Aggregate Kilns	Solid Fuel Boilers	Liquid Fuel Boilers	HCI Production Furnaces
Dioxin/Furans (ng TEQ/dscm)	0.11 for dry apcds and WHBs; 0.2 for others	0.20 or 0.40 + 400°F at inlet to PM control device	0.20 ng TEQ/dscm or rapid quench of flue gas at exit of kiln to less than 400°F	CO or HC, and DRE as surrogate	0.015 for dry apcd; CO or HC, and DRE as surrogate for others	CO or HC, and DRE as surrorgate for others
Mercury	8 ug/dscm	21 ug/dscm *	6.1 ug/dscm *	10 ug/dscm	0.16 ug/dscm *	TCI as surrogate
Particulate Matter	0.0021 gr/dscf	0.0058 gr/dscf	0.011 gr/dscf	0.040 gr/dscf	0.0014 gr/dscf	TCI as surrogate
Semivolatile Metals (Pb + Cd)	5.3 ug/dscm	53 ug/dscm	21 ug/dscm	170 ug/dscm	3.1 ug/dscm *	TCI as surrogate
Low Volatile Metals (As + Be + Cr)	2.5 ug/dscm	8.9 ug/dscm	41 ug/dscm	190 ug/dscm	12 ug/dscm (Cr only)	TCI as surrogate
Total Chlorine (TCI) (HCI + CI2)	0.18 ppmv	21 ppmv	280 ppmv	73 ppmv	0.029 ppmv	0.70 ppmv
Carbon Monoxide (CO) or Hydrocarbons (HC)	100 ppmv CO or 10 ppmv HC	100 ppmv CO or 20 ppmv HC fat main stack; or 10 ppmv at bypass	100 ppmv CO or 20 ppmv HC	100 ppmv CO or 10 ppmv HC		
Destruction and Removal Efficiency (DRE)	99.99% (or 99.9999%) for POHC					

Notes:

* Standard based on normal data; therefore, compliance will be based on an annual limit.